1st & final bill.

015-24-00000

M. A. R. 57 (Rule 116) No. E

Measurement Book

684811

Serial No. .....

Name of work: Replacement of burntout UG cable, Panels boards and its accessories coming under Dasarahalli zone parts 15,16,17,18,19,20.

Name of Contractor of nature of Agency: M/s Shri Vishnu & Co (Shri Mahalakshmi Construction)

Date of commencement of work: EE/ELE/D2/TENDER/00/00001U/2024-25 Dt: 06.02.2024 EE/ELE/D2/TENDER/00015/2024-25 Dt: 06.02.2024.

From ..... To .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
01.	Supply of LED Streetlight luminaire with- housing body for optimum thermal dissipation, diecast aluminium - casing of anti glare clear diffused Tempered material, delivering Superior light output Rated life burning - neate material, delivering Superior light output Rated life burning of 50000hrs @ lumen maintenance of 70% minimum light intensity should be between 60° to 70°. CCT 5500k, IP66 optical and electrical comp - attupt & impact resistance of complete luminaire with 5kv along with greater than 0.9 with mains, Surge protection-mov for pole mounting with outer dia of 40mm to 50mm. minimal voltage overvoltage / Overload, Short circuit / reverse polarity protection. Compatible driver to operate wide range from 100v to 270V 50/60Hz applcth. Confi - ance to IS 10322 / IEC 60598, LM 79 & LM 80 Adherance with RoHS, of approved 4 LAYER PCB. Top access Stud Right with single screw to ensure ease of maintenance at the Right left local pan with minimized						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Miniumed tools, LED light LED Efficiency greater than 70 Luminoire manufactured - ted by NABL/CPRI's any government development facility certified road mark none shall be transparent/Embossing housing body part. warranty of 2 years against any manufacturing defects working under Standard electrical conditions as mentioned) LED Street light 40 W. quantity.	fixtures with W. System power consumption 130 lm/W, received ERI greater than should have in house facility accredited certified agency & design ISO 9001:2008. Housing with supplied entire die cast of					
		41 NO'S x Rs. 4000				=	164000.00
2.	Fabricating, Supplying and Octagonal hot dip pole with forgraft, IS806 for base plate Including suitable boards, Fabrication Single Section & Single Joint dimensions bottom, min top min	erection of 8 mtr hot dip Galvanized BSEN 10025 grade S355J0 Steel plate with door opening arrangements, suitable sheet and MCB as per IS specifications suitable to withstand the wind Speed of 47 m/s from pole no welded as per IS 9595 / IS 1078 M/S using with 3mm thick, Suitable base plate					
		41 NO'S x Rs 4000				=	164000.00

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M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. 634812
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and 4 Nos of long bolts along with template & the pole shall be hot dip galvanized by single dipping with not less than 85 micron, as per AGMA 123 & 153 etc. excluding foundation as per drawing appended 300 Top & bottom as per dia.						
		41 NO'S x Rs. 7000				=	287000.00
3.	Supplying & fixing of Hot dip Galvanised TAG bracket suitable for outdoor luminaries & mounted on octagonal pole using necessary bolts, nuts etc. complete Single arm bracket with 1000 mm Standards & 40/50 mm dia.						
		41 NO'S x Rs 900				=	36900.00
4.	Fixing charges of post top/Gate/Garden fitting/LED on the Existing CI/GI or any other pipe using required size of						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Reducer, wiring using Suitable wires.						
		4 NOs	x Rs. 180			=	7380.00
5.	Supplying & fixing Microprocessor based Electronic timer 3-120 Sec Setting.						
		2 NO's	x Rs. 1950			=	3900.00
6.	Supplying & fixing Miniature Circuit breaker on existing MCB distribution boards using necessary fixing materials etc type curve, indicator ON/OFF, Energy class-3 with shortch breaking capacity of 10kA & complete wiring as required con firming to IEC 60898. 50-60 Hz TPN.						
		2 NO's	x Rs 1950			=	3900.00
7.	Supplying & fixing miniature circuit breakers on Existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, Energy class-3 with SC breaking capacity of 10kA & complete wiring as required confirming to IECT 60898 6-25A TPN						
		4 NOs	x Rs 600			=	2400.00

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M. A. R. 57 (Rule 116) No. E

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

684813

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
8.	Supply & fixing of 4 pole power Contactors with NO/NC Contact on Existing wood/panel board using necessary nuts, nut earthing & wiring etc, Complete with AC-3 Rating & as per IS 13947 95/40kA.						
		2 NO's	x Rs 11000			=	22000.00
9.	Fabricating Supplying and Mounting MS box made out sheet Suitable for Floor / wall mounting, fully beathing proof with provision for better heat dissipation, provided with hinged front cover, Equipped with tamper proof locking arrangement with Suitable size clamps with necessary cable entry pipe with gland & box should be finished with thanks treatment finished with powder coated paint and finally Colour etc Complete IS 5039.	80500	500 x Rs 0.30			=	24150.00

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10.	Supplying & fixing helum plastic sheet 3mm thick with necessary stitches for fixing switches, regulators etc, & fixing on existing wood or metal box using MS Screw	20000	Sqcm x	Rs. 0.30		=	6000.00
11.	Supplying & fixing angle iron frame work fabricated out of MS angle iron. and MS flat with bolts, washer etc, & painted with 2 coats of red oxide and then two coats of approved paint 40x40x6mm.	5 Mtr	x Rs	200		=	1000.00
12.	Supplying. A rated 3-d MS neutral bus bar using required capacity Electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are inbuilt in powder Coated 40x6mm MS flat frame work in existing panel board. the bus bar shall have suitable holes for terminating aforesaid & outgoing cables as per IS Specification with necessary bolts, nuts & washers etc complete.						

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M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. 684814

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	100A 4x30x6mm Aluminium Strips	4 Mtr	x	Rs. 2000		=	8000.00
13.	Heavy Duty Copper terminal long barrel 25 Sqmm copper terminal Appx wt: 11gm.	15 NOS	x Rs.	22		=	330.00
14	1.1 kV class HR PVC insulated & sheathed Aluminium Single core lead wires as per IS 694:2010 PVC wire 2.5 Sqmm weight per 100 mtr coil 1.8 kg.	200 Mtr	x Rs.	12.00		=	2400.00
15	Supplying & fixing of LED type panel board indicating lamp with required colour suitable for 230/440V AC 50Hz & 12/24V D.C.	6 NOS	x Rs.	400		=	2400.00

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
16.	Rod type of earthing using 40mmφ Dia, 3 Mtrs long MS Rod as ground rod, in earth pit of 300 mm width & 800mm depth and using 50×6 mm flat welded to ground rod at one end - nals connected to equipment ground terminal using PVC Wires as specified.	2 Nos × Rs. 1500				=	3000.00
17.	Earth work Excavation for Cable trench of 0.5 to 0.75 mts width & depth upto 1 Mtr including trial pits depositing on bank upto a lead of 50 Mts, Supplying and Displaying necessary Danger boards & fencing, using sight rails & sign boards at every 100 Mts achieved necessary as directed.	202 cubic mtrs × Rs. 220				=	44440.00

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M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

684815

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
18.	1.1 kV, XLPE or Heat resistant PVC insulated, PVC extruded inner sheath Armoured UG Cable as per IS 1554 Part 1 owing strength & resistivity as per IS 3975 16 Sqmm, 4 core.	0.56 kms × Rs. 130000				=	72800.00
19.	Laying of cable in Existing trench / GI pipe / stone ware RCC Hume pipe using wooden / Aluminium Rollers as directed by the department staff 2.5 to 35 Sqmm.	0.56 kms × RS. 16000				=	8960.00
20.	Providing & laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with stone metal & sand Site crushed granite metal Coarse aggregate (20 mm) (0.87 CMT						

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and fine aggregates @ 0.459 CMT machine mixed concrete laid in layers not Exceeding 150m. thick, well compacted in foundation & plinth & sills, including cost of all materials labour, hire of machinery, curing complete as per specn						
		10 Cubic Mtr	X	Rs	5000.00	=	50,000.00
21.	Optical fiber cable & HDPE Accessories 40/33 mm.	0.4 Km	X	Rs.	6500.00		2600.00
					Total =		753340.00

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M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

684316

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate 1. the above said work has been carried out satisfactorily 2. the amount claimed in this bill has not been claimed in any of the previous bill.						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cable laboring — 9m DOS overhead by hosbur Engineers						
	1) pole 1 to pole no 2	=	15 mtr				
	2) pole 2 to pole no 3	=	15 mtr				
	3) pole no 3 to pole no 4	=	15 mtr				
	4) Pole no 4 to pole no 5	=	15 mtr				
	5) Pole no 5 to pole no 6	=	15 mtr				
	6) Pole no 6 to pole no 7	=	15 mtr.				
	7) Pole no 7 to pole no 8	=	15 mtr.				
	8) pole no 8 to pole no 9	=	15 mtr.				
	9) pole no 9 to pole no 10	=	15 mtr.				
	10) Pole no 10 to pole no 11	=	15 mtr.				
	11) Pole no 11 to pole no 12	=	15 mtr.				
	12) Pole no 12 to pole no 13	=	15 mtr.				
	13) Pole no 13 to pole no 14	=	15 mtr.				
	14) Pole no 14 to pole no 15	=	15 mtr.				
	15) pole no 15 to pole no 16	=	15 mtr.				
	16) pole no 16 to pole no 17 = 15 mtr.						
	17) pole no 17 to pole no 18 = 15 mtr.						
	18) pole no 18 to pole no 19 = 15 mtr.						
	19) pole no 19 to pole no 20 = 15 mtr.						
	20) pole no 20 to pole no 21 = 15 mtr.						
	21) pole no 21 to pole no 22 = 15 mtr.						
	22) pole no 22 to pole no 23 = 15 mtr.						
	23) pole no 23 to pole no 24 = 15 mtr.						
	24) pole no 24 to pole no 25 = 15 mtr.						
	25) pole no 25 to pole no 26 = 15 mtr.						
	26) pole no 26 to pole no 27 = 15 mtr.						
	27) pole no 27 to pole no 28 = 15 mtr.						
	28) pole no 28 to pole no 29 = 15 mtr.						
	29) pole no 29 to pole no 30 = 15 mtr.						

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M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. 634817

Name of work ..... From ..... To .....

Name of Contractor or nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	30) pole no 30 to pole no 31	=	15 mtr				
	31) Pole no 31 to pole no 32	=	15 mtr				
	32) pole no 32 to pole no 33	=	15 mtr				
	33) Pole no 33 to pole no 34	=	15 mtr				
	34) pole no 34 to pole no 35	=	15 mtr				
	35) pole no 35 to pole no 36	=	15 mtr.				
	36) pole no 36 to pole no 37	=	15 mtr.				
	37) pole no 37 to pole no 38	=	15 mtr.				
	38) pole no 38 to pole no 39	=	15 mtr.				
	39) pole no 39 to pole no 40	=	15 mtr.				
	40) pole no 40 to pole no 41	=	15 mtr.				
	total.		360 mtr				

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1st & final
015-24-000007

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Panel box details					Mahalakshmi Construction	
	1) New pole Dasarhalli MEI Layout	= 01				Total Bill - 753000-00	
	2) New pole Dasarhalli Kirloskar layout part	= 01				IT - 7530-00	
		Total = 02.				GST - 7530-00	
						LIT - 7530-00	
						CBF - 7530-00	
						LWF - 753-00	
	total Number of poles 241	= 560 Mtr.				Adj - 30873-00	
	total " " Panelbox Rs	2				Net - 722127-00	

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ASST. EXECUTIVE ENGINEER
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Admitted & Applied for Rs. 753000-00
Rupees Seven lakh fifty three thousand only
Gross Amount 753000-00
Adjustment Amount 30873-00
Cheque Amount 722127-00

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